

## ABSTRACT

In the process for producing kraft pulp, there are provided (G) a potassium ion removal step of flowing an aqueous solution containing ashes recovered from a combustion exhaust gas generated in a black solution combustion step (E) by a dust collector through a packed bed filled with a sodium-type cation exchange resin to adsorb and remove potassium ions contained in the aqueous solution; and (H) a regeneration step of treating the cation exchange resin used in the potassium ion removal step (G) with an aqueous sodium hydroxide solution to regenerate the cation exchange resin, wherein a fraction recovered from the potassium ion removal step (G) which is rich in sodium sulfate and sodium carbonate is recycled to the black solution concentrating step (D), and a sodium hydroxide effluent recovered from the regeneration step (H) is recycled to a bleaching step (C) and reused therein.